import java.util.Scanner;

class CommercialAdd{

private float size\_of\_add;

private float price\_per\_cm;

private float price;

public void read(){

Scanner sc = new Scanner(System.in);

System.out.println("Enter size\_of\_add");

size\_of\_add = sc.nextFloat();

System.out.println("Enter price\_per\_cm");

price\_per\_cm = sc.nextFloat();

}

public void display(){

System.out.println("size\_of\_add ="+size\_of\_add);

System.out.println("price\_per\_cm"+price\_per\_cm);

}

public float getPrice(){

price = size\_of\_add\*price\_per\_cm;

return price;

}

}

class FreeAdd extends CommercialAdd

{

private int free\_add\_time\_duration;

public void read(){

super.read();

Scanner sc = new Scanner(System.in);

System.out.println("Enter duration");

free\_add\_time\_duration = sc.nextInt();

}

public void display(){

super.display();

System.out.println("free\_add\_time\_duration"+free\_add\_time\_duration);

}

public float getNoOfAdd(){

return free\_add\_time\_duration;

}

}

class Advertisement extends FreeAdd{

private int advertisement\_id;

private String client\_name;

private String start\_date;

public static int add\_id=100;

Advertisement(){

advertisement\_id=++add\_id;

}

public void read(){

super.read();

Scanner sc = new Scanner(System.in);

System.out.println("Enter Person Name");

client\_name = sc.nextLine();

System.out.println("Enter start\_date");

start\_date = sc.nextLine();

}

public void display(){

super.display();

System.out.println(" Advertisement id ="+advertisement\_id);

System.out.println("Client Name ="+client\_name);

System.out.println("start\_date"+start\_date);

}

}

class Add{

public static void main(String[] args) {

int ch=0;

int c=0;

Advertisement obj[] = new Advertisement[5];

do{

Scanner sc = new Scanner(System.in);

System.out.println("1:Read Data");

System.out.println("2:Display Data");

System.out.println("3:more than 5000 price");

System.out.println("4:more than 2 add");

System.out.println("Enter Choice");

ch=sc.nextInt();

switch(ch)

{

case 1:

obj[c] = new Advertisement();

obj[c].read();

c++;

break;

case 2:

for(int i=0;i<c;i++){

obj[i].display();

}

break;

case 3:

for (int i=0;i<c;i++){

if(obj[i].getPrice() >5000) {

obj[i].display();

}

}

break;

case 4:

for (int i=0;i<c;i++){

if(obj[i].getNoOfAdd() >2) {

obj[i].display();

}

}

break;

default:

System.out.println("Wrong choice");

}

}while(ch!=0);

}

}

A screen shot of a computer

Description automatically generated